Mohit Kumar

Full-Stack Software Engineer · Payments, AI Agents & Backend Systems

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Summary

Full-stack engineer (TypeScript, Next.js, Node.js, PostgreSQL) owning payments, AI and booking systems on a production SaaS with **10,000+ users**. Shipped **1,100+ production commits** in year one, including a Stripe commerce layer adding **3 revenue models** and a **17-tool LLM agent**.

Work Experience

Lunacal (lunacal.ai) Sep 2025 – Present

Software Engineer

Scheduling & payments SaaS · 10,000+ users · 4-person engineering team · Next.js / TypeScript / tRPC / Prisma / PostgreSQL monorepo

- **AI agent:** Built an **LLM scheduling assistant** (Vercel AI SDK, Azure OpenAI) with **17 tool calls** over tRPC to manage event types, coupons, bookings and availability, with streaming and **human-in-the-loop approval** for destructive actions.
- **Payments:** Designed a plugin-based **Stripe/PayPal commerce layer** adding **3 revenue models**: digital products, **recurring subscriptions** (credit top-ups, dunning, auto-refunds) and multi-session packages.
- **Deposits & coupons:** Shipped **partial-payment deposits** (percent or fixed, balance charged later via Stripe), duration-based pricing, and a **coupon engine** with usage caps, expiry and versioned redemption history.
- **Client portal (0→1):** Launched an authenticated client product with **passwordless magic-link and phone OTP login**, multi-tenant sessions, and a no-code branding editor with draft/publish.
- **Booking engine:** Built **packages and recurring events** (up to 20 slots, Google/Outlook), replacing N emails with **one RDATE-based ICS invite**; snapshotted booking terms so event edits never alter past bookings.
- **Teams & access control:** Built role-based owner/admin access to members' bookings, **managed (parent→child) event types** with locked fields, team schedules, and **custom-domain** URLs across every emitted link.
- **Payment reliability:** Fixed production money bugs (bookings stuck in **PENDING**, duplicate paid-reschedule emails, ghost bookings on failed charges); added a **payment-reminder cron** and status polling on checkout.
- **Data modeling:** Authored **35+ PostgreSQL migrations** with Prisma, including versioned, soft-deleted coupon keys and per-user plan quotas, so payment history stays auditable after hosts edit settings.
- **Availability:** Extracted a single slot-computation entry point and built a **troubleshooting view** that explains why each slot is unavailable; auto-flagged broken **Google Calendar OAuth** credentials with one-click reconnect.
- **Integrations:** Rebuilt the **Insights dashboard**; integrated **Google Tag Manager** (10+ booking events), **HubSpot** and Zapier; published **3 no-code plugins** (Framer Marketplace, WordPress, Webflow).

Projects

RAG AI Code Reviewer May 2026

TypeScript · Node.js · PostgreSQL · pgvector · Tree-sitter · OpenAI Embeddings · pg-boss

- Built a **GitHub App** for codebase-aware PR reviews that retrieves the **top-5** most similar functions in the repo so suggestions follow its existing patterns.
- Wrote the **RAG pipeline from scratch**: Tree-sitter AST chunking, **1536-dim** OpenAI embeddings in pgvector, and cosine-similarity retrieval, with no RAG framework.
- Split webhook receiver and async worker over a pg-boss queue with idempotent jobs, so each PR event is processed **exactly once** despite retries.

Technical Skills

Backend	TypeScript, Node.js, Next.js, tRPC, Express.js, REST, Zod, Prisma ORM
Frontend	React, Next.js 15, Tailwind CSS, i18n
AI / LLM	AI agents, LLM tool calling, Vercel AI SDK, Azure OpenAI, MCP, RAG, pgvector, Tree-sitter
Payments & APIs	Stripe (Connect, Subscriptions), PayPal, OAuth 2.0, Webhooks, HubSpot, Google Tag Manager
Data & Infra	PostgreSQL, Redis, MongoDB, Docker, AWS (EC2, SES), GitHub Actions, Sentry, Playwright

Education

Jun 2025 **B.Tech, Information Technology** — Dr. A.P.J. Abdul Kalam Technical University (GPA: 8.25/10)